

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Shigeru NAKAYAMA

Application No.: New U.S. Patent Application

Filed: December 21, 2001

Docket No.: 111562

For: APPARATUS FOR MEASURING SURFACE SHAPE, LATERAL COORDINATE
CALIBRATION METHOD THEREFOR, AND OPTICAL MEMBER HAVING BEEN
MEASURED WITH SAID APPARATUS OR METHOD

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 3, 8, 11 and 16 as follows:

3. (Amended) A lateral coordinate calibrating method for a surface shape measuring apparatus according to claim 1, wherein said reflecting optical element comprises a reflection type diffractive optical element.
8. (Amended) An optical member having been measured using a lateral coordinate calibrating method for a surface shape measuring apparatus according to claim 1.
11. (Amended) A surface shape measuring apparatus according to claim 9, wherein said reference light is a reflection light from a reference surface.

16. (Amended) An optical member having been measured using the surface shape measuring apparatus according to claim 12.

REMARKS

Claims 1-16 are pending. By this Preliminary Amendment, claims 3, 8, 11 and 16 are amended to eliminate multiple dependencies. Prompt and favorable examination on the merits is respectfully requested.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

Respectfully submitted,


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Attachment: Appendix

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APPENDIX

Changes to Claims:

The following are marked-up versions of the amended claims:

3. (Amended) A lateral coordinate calibrating method for a surface shape measuring apparatus according to claim 1 ~~or~~ 2, wherein said reflecting optical element comprises a reflection type diffractive optical element.

8. (Amended) An optical member having been measured using a lateral coordinate calibrating method for a surface shape measuring apparatus according to claim 1 ~~or~~ 2.

11. (Amended) A surface shape measuring apparatus according to claim 9 ~~or~~ 10, wherein said reference light is a reflection light from a reference surface.

16. (Amended) An optical member having been measured using the surface shape measuring apparatus according to claim 12 ~~any one of claims 12 to 15~~.